

**Exercise 1** The function  $f$  is defined by the formula  $f(x) = 3e^x + 1$ .

The range of  $f$  is  $(\boxed{1}, \boxed{\infty})$ .

**Hint:** Desmos link: <https://www.desmos.com/calculator/kcidkhjpkp>

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**Exercise 2** The function  $g$  is defined by the formula  $g(x) = 5 \sin(x)$ .

The range of  $g$  is  $[\boxed{-5}, \boxed{5}]$ .

**Exercise 2.1** The function  $h$  is defined by the formula  $h(x) = 5 \sin(x^2)$ .

The range of  $h$  is  $[\boxed{-5}, \boxed{5}]$ .

**Hint:** Desmos link: <https://www.desmos.com/calculator/zpzx2bkz9u>

**Exercise 2.1.1** The function  $k$  is defined by the formula  $k(x) = 5 \sin(x^2 + e^x)$ .

The range of  $h$  is  $[\boxed{-5}, \boxed{5}]$ .

**Hint:** Desmos link: <https://www.desmos.com/calculator/qosps4wcaf>

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